

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

**Software Version Description (SVD) for the
METOC Database Manager (MDBMAN) Segment
of the
Tactical Environmental Support System Next Century
[TESS(NC)]
Meteorology and Oceanography (METOC) Database**

Document Version 1.7

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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the Meteorology and Oceanography (METOC) Database Manager (MDBMAN) segment, Version 1.2.2.2, of the Tactical Environmental Support System Next Century [TESS(NC)] METOC Database. The MDBMAN segment provides the ability to purge and archive various types of METOC data from the database. In addition, the segment allows for METOC data archived to a tape or hard disk to be retrieved and restored into the database. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1, on a Hewlett-Packard computer running HP-UX 10.20 or a personal computer running the Microsoft Windows NT 4.0 operating system with Service Pack 3.

1.2 System Overview

The software described in this document forms a portion of the METOC Database component of the TESS(NC) Program (Navy Integrated Tactical Environmental Subsystem (NITES) Version I). On 29 October 1996, the Oceanographer of the Navy issued a TESS Program Policy statement in letter 3140 Serial 961/6U570953, modifying the Program by calling for five seamless software versions that are DII COE compliant, preferably to level 5.

The five versions are:

- NITES Version I The local data fusion center and principal METOC analysis and forecast system (TESS(NC))
- NITES Version II The subsystem on the Joint Maritime Command Information System (JMCIS) or Global Command and Control System (GCCS) (NITES/Joint METOC Segment (JMS))
- NITES Version III The unclassified aviation forecast, briefing and display subsystem tailored to Naval METOC shore activities (currently satisfied by the Meteorological Integrated Data Display System (MIDDS))
- NITES Version IV The Portable subsystem composed of independent Personal Computers (PCs)/workstations and modules for forecaster, satellite, communications, and Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance (IC4ISR) functions (currently the Interim Mobile Oceanographic Support System (IMOSS))
- NITES Version V Foreign Military Sales (currently satisfied by the Allied Environmental Support System (AESS))

NITES I acquires and assimilates various METOC data for use by US Navy and Marine Corps weather forecasters and tactical planners. NITES I provides these users with METOC data, products, and applications necessary to support the warfighter in tactical operations and decision making. NITES I provides METOC data and products to NITES I and II applications, as well as non-TESS(NC) systems requiring METOC data, in a heterogeneous, networked computing environment.

The TESS(NC) Concept of Operations and system architecture require that the METOC Database be distributed both in terms of application access to METOC data and products and in terms of physical location of the data repositories. The organizational structure of the database is influenced by these requirements, and the components of this distributed database are described below.

In accordance with DII COE database concepts, the METOC Database is composed of six DII COE-compliant *shared database* segments. Associated with each shared database segment is an Application Program Interface (API) segment. MDBMAN interfaces with both the API and Database segments on the client/server platform as follows:

<u>Data Type</u>	<u>Data Segment</u>	<u>API Segment</u>
Grid Fields	MDGRID	MAGRID
Latitude-Longitude-Time (LLT) Observations	MDLLT	MALLT
Textual Observations and Bulletins	MDTXT	MATXT
Remotely Sensed Data	MDREM	MAREM
Imagery	MDIMG	MAIMG
Climatology Data	MDCLIM	MACLIM

A typical client-server installation is depicted in Figure 1-1 on the next page. This shows the shared database segments residing on a DII COE database server, with a NITES I or II client machine hosting the API segments. The MDBMAN segment will interface directly with the server platform. Communication between API segments and shared database segments is accomplished over the network using American National Standards Institute (ANSI)-standard Structured Query Language (SQL).

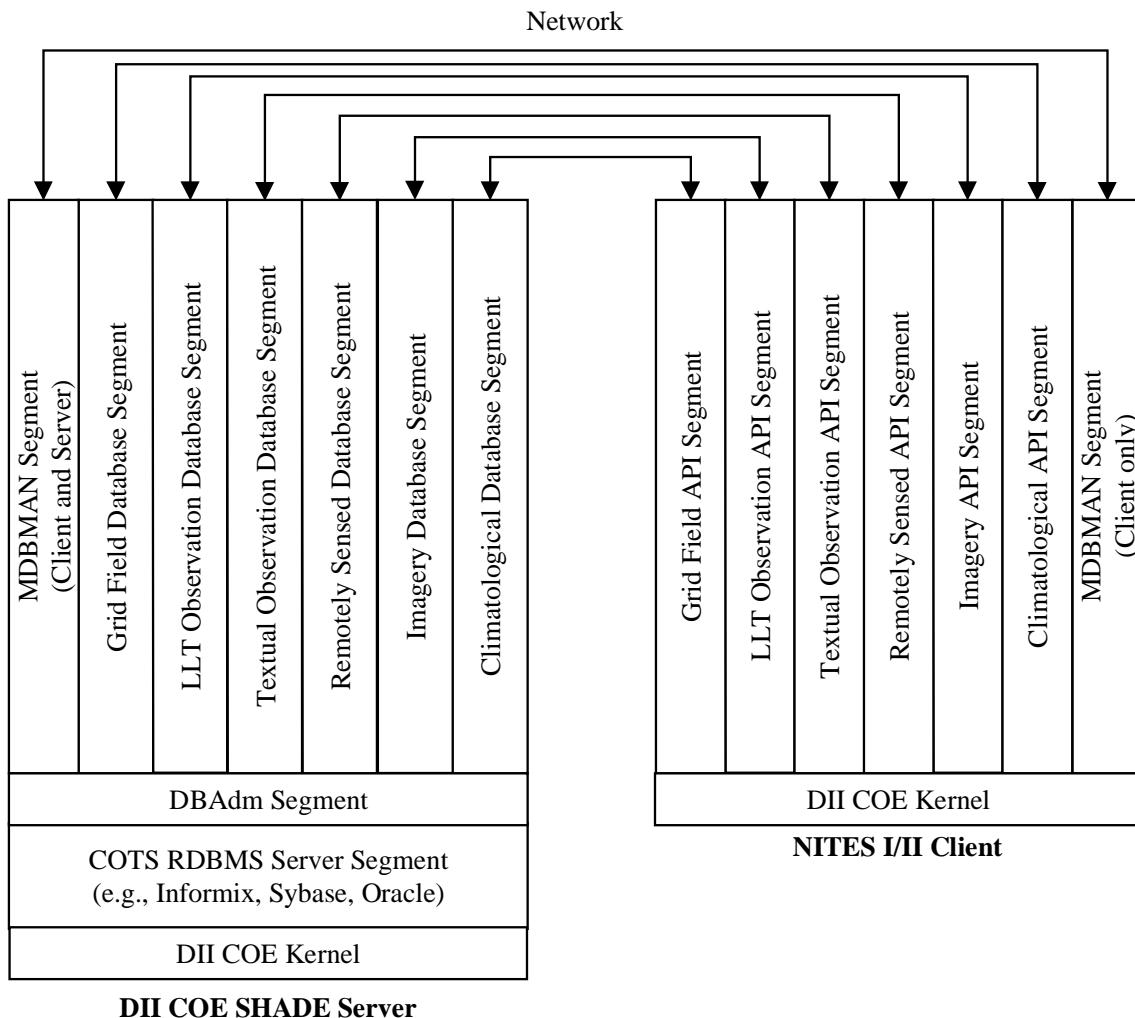


Figure 1-1. TESS(NC) METOC Database Conceptual Organization

The MDBMAN segment interfaces directly with the API and database segments provided on the database server machine. The MDBMAN windows and screens provide easy operation for the user to purge and archive various types of METOC data from the database and retrieve data that have been previously archived to a tape or other media. This interface is easily accessible through logging in as DBAdmin on the TAC-3/TAC-4 Systems, or through the Program's menu on the PC Windows NT/4.0 system.

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software was performed at the Integrated Performance Decisions (IPD) facility in Middletown, RI, prior to delivery of the software.

1.3.2 Product Restrictions

IPD's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

1.3.3 Product Dependencies

The MDBMAN segment is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210)
- IBM-Compatible PC

The operating system requirements are:

- TAC-3/TAC-4: HP-UX 10.20
- PC: Windows NT 4.0 with Service Pack 3

The kernel requirements are:

- TAC-3/TAC-4: Kernel 3.0.1.0 with patches through P5
- PC: N/A

The following software must be properly installed prior to loading the MDBMAN segment on the HP-UX platform:

- Appropriate operating system (as described above)
- Appropriate DII COE Kernel (as described above)
- DII COE Informix Connect segment (INFXCN), version 1.0.1.0
- METOC Grid Field API/DB segments, version 4.3 series/4.2 series
- METOC Textual Obs API/DB segments, version 4.2 series/4.1.2 series
- METOC LLT Obs API/DB segments, version 4.3 series/4.4 series
- METOC Imagery API/DB segments, version 4.2 series/4.1 series
- JAVART segment, version 1.0.0.0
- JMudd segment, version 1.0.0.0

The following software must be properly installed prior to loading the MDBMAN segment on the Windows NT 4.0 platform:

- JAVART Segment, version 1.0.0.0

2 REFERENCED DOCUMENTS

2.1 Government Documents

Unnumbered 30 September 1997	<i>Database Design Description for the Tactical Environmental Support System/Next Century [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), Washington, DC
ipd1200mdbmanipTES-10 23 October 1998	<i>Installation Procedures (IP) for the METOC Database Manager (MDBMAN) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>
ipd1000mdbmanstdTES-10 23 October 1998	<i>Software Test Description (STD) and Software Test Report (STR) for the METOC Database Manager (MDBMAN) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>
ipd1200mdbmansumTES-10 23 October 1998	<i>Software User's Manual (SUM) for the METOC Database Manager (MDBMAN) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of Materials Released

All physical media and associated documentation for the MDBMAN segment are listed below.

- MDBMAN segment v1.2.2.2 (HP-UX) Installation Tape (4-mm Digital Audio Tape (DAT) cartridge for TAC-3/TAC-4 hardware)
- MDBMAN segment v1.2.2.2 (Windows NT) Installation diskette(s) (3.5" high-density diskette, IBM format for Windows NT 4.0 with Service Pack 3) or a CD-ROM
- MDBMAN segment v1.6 Software Version Description (SVD), dated 1 March 1999.

3.2 Inventory of Software Contents

A list of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

A list of changes installed during testing of the MDBMAN software is contained in Appendix B of this document.

3.4 Waivers

There are no waivers associated with this software

3.5 Adaptation Data

There are no unique-to-site data contained in the MDBMAN 1.2.2.2 release.

3.6 Installation Instructions

The MDBMAN segment v1.2 series Installation Procedures (IP) referenced in Section 2 of this document provide comprehensive installation instructions for the MDBMAN, JAVART, and JMudd segments. The fully installed segments occupy approximately 18.5 MB of disk space on HP-UX machines and 17.5 MB (MDBMAN and JAVART only) on Windows NT machines. On

TAC-3/TAC-4 machines the software requires a minimum of 128 MB of RAM, with 192 MB recommended. On Windows NT machines, the software requires a minimum of 32 MB of RAM, with 128 MB recommended.

3.7 Possible Problems and Known Errors

Known problems and errors with MDBMAN software are listed in Appendix C of this document.

4 NOTES

4.1 Glossary of Acronyms

AESS	Allied Environmental Support System
ANSI	American National Standards Institute
API	Application Program Interface
COE	Common Operating Environment
DAT	Digital Audio Tape
DII	Defense Information Infrastructure
GCCS	Global Command and Control System
IC4ISR	Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance
IMOSS	Interim Mobil Oceanographic Support System
INFXCN	Informix Connect Segment
IP	Installation Procedures
JMCIS	Joint Maritime Command Information System
JMS	Joint METOC Segment
LLT	Latitude-Longitude-Time
MDBMAN	METOC Database Manager Segment of the TESS(NC) METOC Database
METOC	Meteorology and Oceanography
MIDDS	Meteorological Integrated Data Display System
NITES	Navy Integrated Tactical Environmental Subsystem
PC	Personal Computer
PTR	Program Trouble Report

SQL	Structured Query Language
SRS	Software Requirements Specification
SUM	Software User's Manual
SVD	Software Version Description
T&E	Test and Evaluation
TESS(NC)	Tactical Environmental Support System Next Century

Appendix A - List of Executables and Environment Files

A.1 File Structure for HP-UX Delivery

```
/h/MDBMAN
total 10
drwxrwxr-x 8 570      COE      1024 Jan 25 17:44 data
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 bin
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 Integ
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 Scripts
drwxrwxr-x 2 570      COE      1024 Jan 26 14:33 SegDescrip

MDBMAN/data:
total 12
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 lib
drwxrwxr-x 5 570      COE      1024 Jan 25 17:44 classes
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 Help
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 Icon
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 Menus
drwxrwxrwx 3 570      COE      1024 Jan 25 20:32 runtime

MDBMAN/data/lib:
total 6588
-r--r-xr-x 1 570      COE      35272 Jan 24 18:58 libMDBMANUtils.sl
-r--r-xr-x 1 570      COE      826476 Jan 24 18:58 libmagridapi_native.sl
-r--r-xr-x 1 570      COE      1706900 Jan 24 18:58 libmalltapi_native.sl
-r--r-xr-x 1 570      COE      239568 Jan 24 18:59 libmatxtapi_native.sl
-r--r-xr-x 1 570      COE      458620 Jan 24 18:59 libmaimgapi_native.sl
-r--r-xr-x 1 570      COE      59972 Jan 24 18:59 libMDBMANUtils_native.sl

MDBMAN/data/classes:
total 6
drwxrwxr-x 7 570      COE      1024 Jan 25 17:43 teds
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 server
drwxrwxr-x 2 570      COE      1024 Jan 25 17:44 client

MDBMAN/data/classes/teds:
total 12
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 magrid
drwxrwxr-x 2 570      COE      2048 Jan 25 17:43 mallt
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 matxt
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 utils
drwxrwxr-x 2 570      COE      1024 Jan 25 17:43 maimg

MDBMAN/data/classes/teds/magrid:
total 134
-rw-rw-r-- 1 570      COE      2112 Jan 24 18:58 MAGRIDBROWSEQUERY.class
-rw-rw-r-- 1 570      COE      1868 Jan 24 18:58 MAGRIDNative.class
-rw-rw-r-- 1 570      COE      1639 Jan 24 18:58 MAGRIDCENTERDATA.class
-rw-rw-r-- 1 570      COE      2440 Jan 24 18:58 MAGRIDBROWSEINFO.class
-rw-rw-r-- 1 570      COE      2278 Jan 24 18:58 MAGRIDPARAMETERDATA.class
-rw-rw-r-- 1 570      COE      1461 Jan 24 18:58 MAGRIDPolarStereo.class
-rw-rw-r-- 1 570      COE      3993 Jan 24 18:58 MAGRIDPROJECTIONUNION.class
-rw-rw-r-- 1 570      COE      2928 Jan 24 18:58 MAGRIDINPUTREG.class
-rw-rw-r-- 1 570      COE      1595 Jan 24 18:58 MAGRIDPROJDESC.class
-rw-rw-r-- 1 570      COE      2741 Jan 24 18:58 MAGRIDOUTPUTREG.class
-rw-rw-r-- 1 570      COE      1939 Jan 24 18:58 MAGRIDMODELDATA.class
```

-rw-rw-r--	1	570	COE	3278	Jan	24	18:58	MAGRID3DINGEST.class
-rw-rw-r--	1	570	COE	1457	Jan	24	18:58	MAGRIDSPHERICAL.class
-rw-rw-r--	1	570	COE	3176	Jan	24	18:58	MAGRID2DINGEST.class
-rw-rw-r--	1	570	COE	1529	Jan	24	18:58	MAGRIDLAMBERTMERC.class
-rw-rw-r--	1	570	COE	1748	Jan	24	18:58	MAGRIDDATA.class
-rw-rw-r--	1	570	COE	1758	Jan	24	18:58	MAGRID3DDATA.class
-rw-rw-r--	1	570	COE	1922	Jan	24	18:58	MAGRIDREFERENCE.class
-rw-rw-r--	1	570	COE	1699	Jan	24	18:58	MAGRIDFORMAT.class
-rw-rw-r--	1	570	COE	2906	Jan	24	18:58	MAGRIDQUERY.class
-rw-rw-r--	1	570	COE	2713	Jan	24	18:58	MAGRID3DQUERY.class
-rw-rw-r--	1	570	COE	3720	Jan	24	18:58	MAGRID3DFIELDDESC.class
-rw-rw-r--	1	570	COE	1722	Jan	24	18:58	MAGRIDRET.class
-rw-rw-r--	1	570	COE	3609	Jan	24	18:58	MAGRIDFIELDDESC.class
-rw-rw-r--	1	570	COE	1558	Jan	24	18:58	MAGRIDGEAREA.class

MDBMAN/data/classes/teds/mallt:

total 306

-rw-rw-r--	1	570	COE	2914	Jan	24	18:58	MALLTOBSERVATION.class
-rw-rw-r--	1	570	COE	8132	Jan	24	18:58	OBDATAUNION.class
-rw-rw-r--	1	570	COE	1791	Jan	24	18:58	MALLTOBTYPESLIST.class
-rw-rw-r--	1	570	COE	1402	Jan	24	18:58	MALLTNative.class
-rw-rw-r--	1	570	COE	2519	Jan	24	18:59	MALLTSSOTHERINFO.class
-rw-rw-r--	1	570	COE	1572	Jan	24	18:59	MALLTDTSSSPROFILE.class
-rw-rw-r--	1	570	COE	1502	Jan	24	18:59	MALLTVSSDET.class
-rw-rw-r--	1	570	COE	2095	Jan	24	18:59	MALLTVSSDATA.class
-rw-rw-r--	1	570	COE	3738	Jan	24	18:59	MALLTOCEANPROFILE.class
-rw-rw-r--	1	570	COE	2240	Jan	24	18:59	MALLTBOTLOSSDATA.class
-rw-rw-r--	1	570	COE	1684	Jan	24	18:59	MALLTROCKETSONDEREPORT.class
-rw-rw-r--	1	570	COE	1844	Jan	24	18:59	MALLTUAWINDREPORT.class
-rw-rw-r--	1	570	COE	2209	Jan	24	18:59	MALLTUAPPRODUCT.class
-rw-rw-r--	1	570	COE	1686	Jan	24	18:59	MALLTICECAPDATA.class
-rw-rw-r--	1	570	COE	1850	Jan	24	18:59	MALLTROCKETSOUNDING.class
-rw-rw-r--	1	570	COE	1682	Jan	24	18:59	MALLTCONVCOND.class
-rw-rw-r--	1	570	COE	2379	Jan	24	18:59	MALLTPIREP.class
-rw-rw-r--	1	570	COE	2597	Jan	24	18:59	MALLTUAPROFILE.class
-rw-rw-r--	1	570	COE	1553	Jan	24	18:59	MALLTAIRREP.class
-rw-rw-r--	1	570	COE	2177	Jan	24	18:59	MALLTUATEMPREPORT.class
-rw-rw-r--	1	570	COE	1699	Jan	24	18:59	MALLTUATTI.class
-rw-rw-r--	1	570	COE	1854	Jan	24	18:59	MALLTUATEMPSOUNDING.class
-rw-rw-r--	1	570	COE	1654	Jan	24	18:59	MALLTUAWINDSOUNDING.class
-rw-rw-r--	1	570	COE	1929	Jan	24	18:59	MALLTUAPROFILESOUNDING.class
-rw-rw-r--	1	570	COE	1734	Jan	24	18:59	MALLTEVAPORATIONHT.class
-rw-rw-r--	1	570	COE	1824	Jan	24	18:59	MALLTBATHYREPORT.class
-rw-rw-r--	1	570	COE	2974	Jan	24	18:59	MALLTSYNOPTICSUMMARY.class
-rw-rw-r--	1	570	COE	1661	Jan	24	18:59	MALLTUAMMWINDS.class
-rw-rw-r--	1	570	COE	1938	Jan	24	18:59	MALLTSYNOPTICREPORT.class
-rw-rw-r--	1	570	COE	2463	Jan	24	18:59	MALLTOCEANDATA.class
-rw-rw-r--	1	570	COE	2144	Jan	24	18:59	MALLTCLOUDDATA.class
-rw-rw-r--	1	570	COE	1965	Jan	24	18:59	MALLTBUOY.class
-rw-rw-r--	1	570	COE	1762	Jan	24	18:59	MALLTBATHY.class
-rw-rw-r--	1	570	COE	1816	Jan	24	18:59	MALLTBEOYREPORT.class
-rw-rw-r--	1	570	COE	1514	Jan	24	18:59	MALLTBEOYSOUNDING.class
-rw-rw-r--	1	570	COE	1718	Jan	24	18:59	MALLTBATHYSOUNDING.class
-rw-rw-r--	1	570	COE	2647	Jan	24	18:59	MALLTMETARREPORT.class
-rw-rw-r--	1	570	COE	3576	Jan	24	18:59	MALLTMETARFIELDS.class
-rw-rw-r--	1	570	COE	1864	Jan	24	18:59	MALLTTAFCONDS.class
-rw-rw-r--	1	570	COE	2223	Jan	24	18:59	MALLTTAFREPORT.class
-rw-rw-r--	1	570	COE	2538	Jan	24	18:59	MALLTTAFFIELDS.class
-rw-rw-r--	1	570	COE	2020	Jan	24	18:59	MALLTAEROFORECAST.class
-rw-rw-r--	1	570	COE	1837	Jan	24	18:59	MALLTAERODROMEQP.class
-rw-rw-r--	1	570	COE	1739	Jan	24	18:59	MALLTAERODROMEClouds.class

-rw-rw-r--	1	570	COE	2821	Jan 24 18:59	MALLTSUBTYPEINFO.class
-rw-rw-r--	1	570	COE	2293	Jan 24 18:59	MALLTRUNWAYCONDITIONS.class
-rw-rw-r--	1	570	COE	1451	Jan 24 18:59	MALLTSHIPREPORT.class
-rw-rw-r--	1	570	COE	2263	Jan 24 18:59	MALLTOBCATALOGQUERY.class
-rw-rw-r--	1	570	COE	3316	Jan 24 18:59	MALLTCOMMONOBATALOG.class
-rw-rw-r--	1	570	COE	3252	Jan 24 18:59	MALLTFCSTOBCATALOG.class
-rw-rw-r--	1	570	COE	3084	Jan 24 18:59	MALLTOBCATALOG.class
-rw-rw-r--	1	570	COE	1572	Jan 24 18:59	MALLTGEOBOUNDS.class
-rw-rw-r--	1	570	COE	1632	Jan 24 18:59	MALLTREPORTINFO.class
-rw-rw-r--	1	570	COE	1555	Jan 24 18:59	MALLTGENERICID.class
-rw-rw-r--	1	570	COE	1549	Jan 24 18:59	MALLTMETOCTIME.class
-rw-rw-r--	1	570	COE	1562	Jan 24 18:59	MALLTOBREFERENCE.class
-rw-rw-r--	1	570	COE	1446	Jan 24 18:59	MALLTGEOPOINT.class
-rw-rw-r--	1	570	COE	1668	Jan 24 18:59	MALLTGENERALCONDITIONS.class
-rw-rw-r--	1	570	COE	1718	Jan 24 18:59	MALLTRET.class
-rw-rw-r--	1	570	COE	1438	Jan 24 18:59	MALLTOBTYPES.class

MDBMAN/data/classes/teds/matxt:

total	28					
-rw-rw-r--	1	570	COE	2365	Jan 24 18:59	MATXTCATQUERY.class
-rw-rw-r--	1	570	COE	2633	Jan 24 18:59	MATXTCATDATA.class
-rw-rw-r--	1	570	COE	2756	Jan 24 18:59	MATXTOBS.class
-rw-rw-r--	1	570	COE	827	Jan 24 18:59	MATXTNative.class
-rw-rw-r--	1	570	COE	1560	Jan 24 18:59	MATXTAOI.class
-rw-rw-r--	1	570	COE	1718	Jan 24 18:59	MATXTRET.class

MDBMAN/data/classes/teds/utils:

total	2					
-rw-rw-r--	1	570	COE	444	Jan 24 18:59	MDBMANUtils.class

MDBMAN/data/classes/teds/maimg:

total	68					
-rw-rw-r--	1	570	COE	3253	Jan 24 18:59	MAIMGQUERY.class
-rw-rw-r--	1	570	COE	2391	Jan 24 18:59	MAIMGBROWSEINFO.class
-rw-rw-r--	1	570	COE	971	Jan 24 18:59	MAIMGNative.class
-rw-rw-r--	1	570	COE	1791	Jan 24 18:59	MAIMGTYPESDATA.class
-rw-rw-r--	1	570	COE	3237	Jan 24 18:59	MAIMGCATALOG.class
-rw-rw-r--	1	570	COE	3739	Jan 24 18:59	MAIMGDATA.class
-rw-rw-r--	1	570	COE	2920	Jan 24 18:59	IMAGE_UNION.class
-rw-rw-r--	1	570	COE	1564	Jan 24 18:59	MAIMGREFERENCEID.class
-rw-rw-r--	1	570	COE	1569	Jan 24 18:59	MAIMGPART_PRODUCT_INFO.class
-rw-rw-r--	1	570	COE	1718	Jan 24 18:59	MAIMGRET.class
-rw-rw-r--	1	570	COE	1833	Jan 24 18:59	MAIMGSATELLITE.class
-rw-rw-r--	1	570	COE	1554	Jan 24 18:59	MAIMGGEOAREA.class
-rw-rw-r--	1	570	COE	2631	Jan 24 18:59	MAIMGSATELLITE_INFO.class

MDBMAN/data/classes/server:

total	224					
-rw-rw-r--	1	570	COE	99747	Jan 24 18:59	s.jar

MDBMAN/data/classes/client:

total	352					
-rw-rw-r--	1	570	COE	165117	Jan 24 19:00	c.jar

MDBMAN/data/Help:

total	1322					
-rw-rw-r--	1	570	COE	4235	Jan 24 19:00	index.html
-rw-rw-r--	1	570	COE	3088	Jan 24 19:00	Appendix.html
-rw-rw-r--	1	570	COE	6336	Jan 24 19:00	Overview.html
-rw-rw-r--	1	570	COE	48708	Jan 24 19:00	ScreenFlow.html
-rw-rw-r--	1	570	COE	10787	Jan 24 19:00	Archive.gif

-rw-rw-r--	1	570	COE	29169	Jan 24 19:00	Device.gif
-rw-rw-r--	1	570	COE	55663	Jan 24 19:00	Event.gif
-rw-rw-r--	1	570	COE	30525	Jan 24 19:00	FIGURE_1.gif
-rw-rw-r--	1	570	COE	12326	Jan 24 19:00	GridDisplay.gif
-rw-rw-r--	1	570	COE	23588	Jan 24 19:00	GridFilter.gif
-rw-rw-r--	1	570	COE	24861	Jan 24 19:00	IMGDisplay.gif
-rw-rw-r--	1	570	COE	15127	Jan 24 19:00	IMGFilter.gif
-rw-rw-r--	1	570	COE	23348	Jan 24 19:00	LLTDisplay.gif
-rw-rw-r--	1	570	COE	15212	Jan 24 19:00	LLTFilter.gif
-rw-rw-r--	1	570	COE	11575	Jan 24 19:00	Main.gif
-rw-rw-r--	1	570	COE	113406	Jan 24 19:00	PurgeGrid.gif
-rw-rw-r--	1	570	COE	52592	Jan 24 19:00	PurgeIMG.gif
-rw-rw-r--	1	570	COE	70493	Jan 24 19:00	PurgeLLT.gif
-rw-rw-r--	1	570	COE	37582	Jan 24 19:00	PurgeTXT.gif
-rw-rw-r--	1	570	COE	29917	Jan 24 19:00	Server.gif
-rw-rw-r--	1	570	COE	5475	Jan 24 19:00	Restore.gif
-rw-rw-r--	1	570	COE	17975	Jan 24 19:00	TXTDisplay.gif
-rw-rw-r--	1	570	COE	12379	Jan 24 19:00	TXTFilter.gif

MDBMAN/data/Icon:

total 4

-rw-rw-r--	1	570	COE	1435	Jan 24 19:00	mdb44x44.gif
------------	---	-----	-----	------	--------------	--------------

MDBMAN/data/Menus:

total 2

-rw-rw-r--	1	570	COE	194	Jan 24 19:00	DBMenusBar.Apps
------------	---	-----	-----	-----	--------------	-----------------

MDBMAN/data/runtime:

total 20

drwxrwxr-x	2	570	COE	1024	Jan 25 17:44	images
-rw-rw-r--	1	informix	informix	776	Jan 25 17:49	error.log
-rw-rw-r--	1	informix	informix	6528	Jan 25 22:20	event.log
-rw-rw-r--	1	informix	informix	158	Jan 25 22:20	schedList.dat

MDBMAN/data/runtime/images:

total 28

-rw-rw-r--	1	570	COE	990	Jan 24 19:00	edit.gif
-rw-rw-r--	1	570	COE	219	Jan 24 19:00	cabinet.gif
-rw-rw-r--	1	570	COE	1624	Jan 24 19:00	left.gif
-rw-rw-r--	1	570	COE	1009	Jan 24 19:00	restore.gif
-rw-rw-r--	1	570	COE	225	Jan 24 19:00	trash1.gif
-rw-rw-r--	1	570	COE	1057	Jan 24 19:00	delete.gif
-rw-rw-r--	1	570	COE	1008	Jan 24 19:00	purge.gif
-rw-rw-r--	1	570	COE	130	Jan 24 19:00	help.gif
-rw-rw-r--	1	570	COE	1025	Jan 24 19:00	restore2.gif
-rw-rw-r--	1	570	COE	1029	Jan 24 19:00	browse.gif

MDBMAN/bin:

total 12

-r-xr-xr-x	1	570	COE	321	Jan 24 19:00	MDBMAN_client
-r-xr-xr-x	1	570	COE	61	Jan 24 19:00	MDBMAN_server
-r-xr-xr-x	1	570	COE	282	Jan 24 19:00	MDBMAN_server_start
-r-xr-xr-x	1	570	COE	60	Jan 24 19:00	DEBUG_server
-r-xr-xr-x	1	570	COE	268	Jan 24 19:00	DEBUG_server_start
-r-xr-xr-x	1	570	COE	68	Jan 24 19:00	MDBMAN_help

MDBMAN/Integ:

total 2

-rw-rw-r--	1	570	COE	269	Jan 25 16:29	VSOoutput
------------	---	-----	-----	-----	--------------	-----------

MDBMAN/Scripts:

total 0

MDBMAN/SegDescrip:

total 20

-r-xr-xr-x	1	570	COE	372	Jan 24 19:00	DEINSTALL
-r--r--r--	1	570	COE	2847	Jan 24 19:00	ReleaseNotes
-r--r--r--	1	570	COE	174	Jan 24 19:00	VERSION
-r--r--r--	1	570	COE	881	Jan 24 19:00	PostInstall
-r--r--r--	1	570	COE	433	Jan 24 19:00	SegName
-rw-r--r--	1	570	COE	606	Jan 25 16:29	SegInfo
-rw-rw-rw-	1	root	COE	129	Jan 25 16:29	Validated
-rw-rw-rw-	1	root	other	140	Jan 25 17:44	Installed

A.2 File Structure for Windows NT Delivery

```
\h\MDBMAN
total 4
drwxr-xr-x  7 0  everyone      0  Dec 17 16:24 data
drwxr-xr-x  2 0  everyone      0  Jan 29 12:01 bin
drwxr-xr-x  8 0  everyone      0  Jan 29 12:01 SegDescrip
drwxr-xr-x  2 0  everyone      0  Jan 29 12:01 Scripts
-rw-r--r--  1 0  everyone  7828  Jan 29 12:02 Uninst.isu

MDBMAN\data:
total 0
drwxr-xr-x  5 0  everyone      0  Dec 17 16:24 runtime
drwxr-xr-x  4 0  everyone      0  Jan 29 12:01 classes
drwxr-xr-x 25 0  everyone      0  Jan 29 12:01 Help
drwxr-xr-x  3 0  everyone      0  Jan 29 12:02 Menus
drwxr-xr-x  3 0  everyone      0  Jan 29 12:02 Icons

MDBMAN\data\runtime:
total 2
-rw-r--r--  1 0  everyone   309  Jan 28 13:17 device.cfg
-rw-r--r--  1 0  everyone  425  Jan 28 14:10 server.cfg
drwxr-xr-x 12 0  everyone      0  Jan 29 12:02 images

MDBMAN\data\runtime\images:
total 10
-r--r--r--  1 0  everyone   990  Jan 25 10:20 edit.gif
-r--r--r--  1 0  everyone   219  Jan 25 10:20 cabinet.gif
-r--r--r--  1 0  everyone  1624  Jan 25 10:20 left.gif
-r--r--r--  1 0  everyone  1008  Jan 25 10:20 purge.gif
-r--r--r--  1 0  everyone  1009  Jan 25 10:20 restore.gif
-r--r--r--  1 0  everyone  1025  Jan 25 10:20 restore2.gif
-r--r--r--  1 0  everyone   225  Jan 25 10:20 trash1.gif
-r--r--r--  1 0  everyone  1029  Jan 25 10:20 browse.gif
-r--r--r--  1 0  everyone  1057  Jan 25 10:20 delete.gif
-r--r--r--  1 0  everyone   130  Jan 25 10:20 help.gif

MDBMAN\data\classes:
total 0
drwxr-xr-x  3 0  everyone      0  Jan 29 12:01 client
drwxr-xr-x  3 0  everyone      0  Jan 29 12:01 server

MDBMAN\data\classes\client:
total 81
-rw-r--r--  1 0  everyone  165117  Jan 25 10:20 c.jar

MDBMAN\data\classes\server:
total 49
-rw-r--r--  1 0  everyone  99747  Jan 25 10:20 s.jar

MDBMAN\data\Help:
total 333
-r--r--r--  1 0  everyone   3088  Jan 25 10:20 Appendix.html
-rw-r--r--  1 0  everyone   4235  Jan 25 10:20 index.html
-rw-r--r--  1 0  everyone  29169  Jan 25 10:20 Device.gif
-rw-r--r--  1 0  everyone  55663  Jan 25 10:20 Event.gif
-rw-r--r--  1 0  everyone  30525  Jan 25 10:20 FIGURE_1.gif
-r--r--r--  1 0  everyone  48708  Jan 25 10:20 ScreenFlow.html
```

-r--r--r--	1	0	everyone	6336	Jan 25 10:20	Overview.html
-rw-r--r--	1	0	everyone	10787	Jan 25 10:20	Archive.gif
-rw-r--r--	1	0	everyone	15127	Jan 25 10:20	IMGFilter.gif
-rw-r--r--	1	0	everyone	15212	Jan 25 10:20	LLTFilter.gif
-r--r--r--	1	0	everyone	12326	Jan 25 10:20	GridDisplay.gif
-rw-r--r--	1	0	everyone	23588	Jan 25 10:20	GridFilter.gif
-r--r--r--	1	0	everyone	24861	Jan 25 10:20	IMGDisplay.gif
-rw-r--r--	1	0	everyone	113406	Jan 25 10:20	PurgeGrid.gif
-rw-r--r--	1	0	everyone	11575	Jan 25 10:20	Main.gif
-r--r--r--	1	0	everyone	23348	Jan 25 10:20	LLTDisplay.gif
-rw-r--r--	1	0	everyone	70493	Jan 25 10:20	purgeLLT.gif
-rw-r--r--	1	0	everyone	37582	Jan 25 10:20	PurgeTXT.gif
-rw-r--r--	1	0	everyone	52592	Jan 25 10:20	PurgeIMG.gif
-r--r--r--	1	0	everyone	17975	Jan 25 10:20	TXTDisplay.gif
-r--r--r--	1	0	everyone	5475	Jan 25 10:20	Restore.gif
-rw-r--r--	1	0	everyone	12379	Jan 25 10:20	TXTFilter.gif
-rw-r--r--	1	0	everyone	29917	Jan 25 10:20	Server.gif

MDBMAN\data\Menus:

total 1

-r--r--r--	1	0	everyone	194	Jan 25 10:20	DBMenuBar.Apps
------------	---	---	----------	-----	--------------	----------------

MDBMAN\data\Icons:

total 2

-r--r--r--	1	0	everyone	2238	Jan 25 10:20	mdbman.ico
------------	---	---	----------	------	--------------	------------

MDBMAN\bin:

total 0

MDBMAN\SegDescrip:

total 7

-r-xr-xr-x	1	0	everyone	296	Jan 25 10:20	PostInstall.bat
-r-xr-xr-x	1	0	everyone	177	Jan 25 10:20	DEINSTALL.bat
-r--r--r--	1	0	everyone	605	Jan 25 10:20	SegInfo.txt
-r--r--r--	1	0	everyone	174	Jan 25 10:20	Version
-r--r--r--	1	0	everyone	2847	Jan 25 10:20	ReleaseNotes
-r--r--r--	1	0	everyone	433	Jan 25 10:20	SegName

MDBMAN\Scripts:

total 0

Appendix B - Changes/Updates Since Preliminary Release

This release made the following changes:

Pri	PTR #	Summary
1	128	When archiving 3d grids, MDBMAN crashes
1	157	Archive from the image database, causes a memory problem in Java.
1	183	LLT crashes MDBMAN Server, while trying to archive LLT data.
1	193	When a purge is executed using the NOW option, it does not give the user a dialog box to confirm the purge. It just executes the purge.
1	259	Port segments to Solaris. Be able to support COE and Non-COE systems.
1	278	MDBMAN reports the ingest and ob time for LLT as Local time, not Zulu time.
1	279	MDBMAN corrupts the schedule list when it is halted.
2	154	The time stamp on the archive header is one hour ahead.
2	235	Percentage of disk space free not calculated correctly for MDGRID, when Blob Page size is set to other than the default setting.
2	244	Cannot purge, archive Type 7 and Subtype 5. This also affects the browser tool.
2	260	Investigate/improve MDBMAN performance.
3	129	Prompt user to complete all fields in the Device Configuration Window
3	133	Online help has erroneous characters and the sample screens did not port properly.
3	140	Purge screen does not clear data previously entered from fields when reinitializing purge function
3	148	Ensure the segment version number is listed as part of the title when using the Add/Run Programs Window
3	149	Ensure the segment version number is listed as part of the title when using the Add/Run Programs Window

Pri	PTR #	Summary
3	261	Complete and test Y2K processing in TEDS DB, API, and MDBMAN segments. Run Tracer 2000 tool on NT software; visual inspection of code sections related to time prior to, at, and across the year 2000. Develop or elaborate test cases to specifically stress Y2K sections of software.
3	314	Fix MDBMAN to work with the new version of LLT.
4	119	Rename radio buttons on the main screen to be more user intuitive.
4	152	Whole World Push Buttons needed in PurgeLLT and PurgeIMG Tab Panels similar to Whole World PB in Archive Screen
4	186	Replace call to MAGRID_krnl_ModelList with MAGRIDGetModelsInfo.
5	118	Incorporate IMG segment into the application functionality.
5	122	Incorporate purge data functionality as the resource limit reaches a specified threshold.
5	155	If the server is busy, a new client cannot connect until the server finishes the job that was running.
5	158	The Every field must be white, as to indicate that it is an editable field.
5	215	Create browser tool for MDBMAN.
5	245	Add an error message if the user does not enter in a description for the server in the server configuration window.
5	249	Remove the Help DLL and replace with "exec(" cmd /c index.html") command.

Appendix C - Known Problems and Errors

Pri	PTR #	Summary
3	266	WMO ID not filled in for METARS — actually, it is filled in with the LLT missing value.
3	267	Add features to the archive screens.
3	268	Use DeleteByQuery routines for purge.
3	269	MDBMAN periodically hangs when iconified on NT.
4	270	Develop Station ID Table Edit function for LLT obs.
4	271	Develop Grid Registration and Parameter Edit Function.
4	272	Develop Imagery Type/Subtype Edit function.
5	120	Incorporate and Error Log and Alert Over Ride into the application.
5	121	Incorporate the ability for an auto purge/delete of old data upon the arrival of new data.
5	130	Incorporate Print functionality in the Event Log and Restore windows.

Detailed Program Trouble Reports (PTRs) are contained on the following pages.

Program Trouble Report

Report Number: 266

Originator Information

Author:	Michael Frost	Created:	12/02/98
Site:	MC	Employer:	
Phone:		E-mail:	mfrost
Cross Ref#:			

System Information

Priority	Category	Type	Status
3	Problem	Software	New

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/02/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
WMO ID not filled in for METARS -- Actually it is filled in with the LLT missing value

Steps Required to Duplicate the Problem:
Retrieve METARS using browser portion of MDBMAN, inspect the WMO ID column
Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:

The displaying of METARS in the MDBMAN browser shows the same value (LLT MISSING Value) for the WMO ID of all METARS.

One of two things should be done to fix this problem.

- 1) Display the ICAO stationID (KMRY for Monterey)
- 2) Have LLT fill in the stationID. LLT currently looks up the elevation and lat/lon for the ICAO, it could also look up the WMO ID since its in the same table.

Originator's Recommendation:

#2

PTR Assignment (if known)

Responsible Engineer(s):

Verified By:

Date Verified:

Program Trouble Report

Report Number: 267

Originator Information

Author:	Michael Frost	Created:	12/02/98
Site:	MC	Employer:	
Phone:		E-mail:	mfrost
Cross Ref#:			

System Information

Priority	Category	Type	Status
3	Enhancement	Software	New

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/02/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Add features to the archive screens

Steps Required to Duplicate the Problem:
Hmfffff
Repeatable? Yes

Likelihood of Occurrence:

Problem Description:

Add the criteria fields to the archive screen as they appear in the purge/browse screens.

Originator's Recommendation:

Make it so.

PTR Assignment (if known)

Responsible Engineer(s):

Verified By: **Date Verified:**

Program Trouble Report

Report Number: 268

Originator Information

Author: Michael Frost **Created:** 12/02/98
Site: MC **Employer:**
Phone: **E-mail:** mfrost
Cross Ref#:

System Information

Priority	Category	Type	Status
3	Enhancement	Software	New

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/02/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:

Use DeleteByQuery routines for purge

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:

Use DeleteByQuery routines for the purges. They are much quicker.

Originator's Recommendation:

Make it so.

PTR Assignment (if known)

Responsible Engineer(s):

Verified By:

Date Verified:

Program Trouble Report

Report Number: 269

Originator Information

Author:	Michael Frost	Created:	12/02/98
Site:	MC	Employer:	
Phone:		E-mail:	mfrost
Cross Ref#:			

System Information

Priority 3	Category Problem	Type Software	Status New
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Open Systems

System TESS(NC)-MAN	Version 1.2	Platform NT 4.0	Date 12/02/98
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Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:

MDBMAN periodically hangs when iconified on NT

Steps Required to Duplicate the Problem:

Iconify MDBMAN and go away file a while.

Repeatable? Yes

Likelihood of Occurrence:

Problem Description:

Iconify MDBMAN and go away file a while. Preferably go away while a MDBMAN job is scheduled to run. I think its related to the popup window that comes up after the job completes is having a problem with it being iconified.

Originator's Recommendation:

Make it so.

PTR Assignment (if known)

Responsible Engineer(s):

Verified By:

Date Verified:

Program Trouble Report

Report Number: 270

Originator Information

Author:	Joseph Kralicky	Created:	12/03/98
Site:	NP	Employer:	
Phone:		E-mail:	jkralick
Cross Ref#:			

System Information

Priority	Category	Type	Status
4	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/03/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Develop Station ID Table Edit function for LLT obs

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:
Add a station ID table edit function to MDBMAN

Originator's Recommendation:

PTR Assignment (if known)

Responsible Engineer(s):

Joseph Kralicky

Verified By:

Date Verified:

Program Trouble Report

Report Number: 271

Originator Information

Author:	Joseph Kralicky	Created:	12/03/98
Site:	NP	Employer:	
Phone:		E-mail:	jkralick
Cross Ref#:			

System Information

Priority	Category	Type	Status
4	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/03/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Develop Grid Registration & Parameter Edit Function

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:
Create a grid registration and parameter edit function in MDBMAN

Originator's Recommendation:

PTR Assignment (if known)

Responsible Engineer(s):

Joseph Kralicky

Verified By:

Date Verified:

Program Trouble Report

Report Number: 272

Originator Information

Author:	Joseph Kralicky	Created:	12/03/98
Site:	NP	Employer:	
Phone:		E-mail:	jkralick
Cross Ref#:			

System Information

Priority	Category	Type	Status
4	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.2	HPUX 1020 and NT 4.0 and SOLARIS 2.6 (all)	12/03/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Develop Imagery Type/Subtype Edit function

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:
Create an imagery type and subtype edit capability in MDBMAN

Originator's Recommendation:

PTR Assignment (if known)

Responsible Engineer(s):

Joseph Kralicky

Verified By:

Date Verified:

Program Trouble Report

Report Number: 120

Originator Information

Author:	Jeffrey Landsman	Created:	06/18/98
Site:	NP	Employer:	
Phone:	(401) 849-5952 x3362	E-mail:	jlandsma
Cross Ref#:			

System Information

Priority	Category	Type	Status
5	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.0	HPUX 1020 and NT 4.0 (both)	06/18/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Incorporate and Error Log and Alert Over Ride into the application.

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:
As required by the performance specification, incorporate the following:

1. Error Log- Gives the user a listing of errors and time of errors
2. Alert Over Ride- Give the user an alert prior to a scheduled function, allowing for a manual Over Ride to cancel the process.

Originator's Recommendation:

PTR Assignment (if known)

Responsible Engineer(s):

Joseph Kralicky

Jay Richardson

Verified By:

Jeff Landsman

Date Verified:

06/18/98

Program Trouble Report

Report Number: 121

Originator Information

Author:	Jeffrey Landsman	Created:	06/18/98
Site:	NP	Employer:	
Phone:	(401) 849-5952 x3362	E-mail:	jlandsma
Cross Ref#:			

System Information

Priority	Category	Type	Status
5	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.0	HPUX 1020 and NT 4.0 (both)	06/18/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Incorporate the ability for an auto purge/delete of old data upon the arrival of new data.

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:
As stated in the Performance Specification incorporate the functionality to auto purge/delete of old data upon the arrival of new data.

Originator's Recommendation:

PTR Assignment (if known)

Responsible Engineer(s):

Joseph Kralicky

Jay Richardson

Verified By:

Jeff Landsman

Date Verified:

06/18/98

Program Trouble Report

Report Number: 130

Originator Information

Author:	Jeffrey Landsman	Created:	06/23/98
Site:	NP	Employer:	
Phone:	(401) 849-5952 x3362	E-mail:	jlandsma
Cross Ref#:			

System Information

Priority	Category	Type	Status
5	Enhancement	Software	Assigned

Open Systems

System	Version	Platform	Date
TESS(NC)-MAN	1.0	HPUX 1020 and NT 4.0 (both)	06/23/98

Modules: MDBMAN

Module Functions or other Identifying Keywords:

Description of the Problem

One Line Problem Summary:
Incorporate Print functionality in the Event Log and Browse windows.

Steps Required to Duplicate the Problem:

Repeatable? Yes **Likelihood of Occurrence:**

Problem Description:

Originator's Recommendation:

Make appropriate changes to allow this feature. Changes will be added when the JDK goes to version 1.1.7 or 1.2. At that time the print fixes will be added.

PTR Assignment (if known)

Responsible Engineer(s):

Jay Richardson

Verified By: Jeff Landsman **Date Verified:** 06/23/98